

US005711328A

United States Patent [19]**Braun**[11] **Patent Number:** **5,711,328**[45] **Date of Patent:** **Jan. 27, 1998**[54] **CLEANING DEVICE FOR THE SHAVING
HEAD OF A DRY SHAVER**[75] **Inventor:** Gebhard Braun, Kelkheim, Germany[73] **Assignee:** Braun Aktiengesellschaft, Frankfurt,
Germany[21] **Appl. No.:** 376,849[22] **Filed:** Jan. 23, 1995[30] **Foreign Application Priority Data**

Jan. 26, 1994 [DE] Germany 44 02 238.7

[51] **Int. Cl.⁶** B08B 3/04[52] **U.S. Cl.** 134/111; 134/116; 134/135;
134/186; 134/201[58] **Field of Search** 134/135, 201,
134/198, 102.3, 116, 23, 24, 186, 111;
30/41, 41.3[56] **References Cited****U.S. PATENT DOCUMENTS**

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3,908,681	9/1975	Schimke et al.	134/95.2
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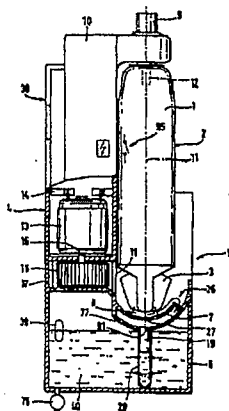
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EP Search report dated Mar. 23, 1995.

Black & Decker, "Powerpro, Dustbuster Plus, Cordless
Vacs", 1989,90, pp. 4, 8-9.*Primary Examiner*—Frankie L. Stinson*Attorney, Agent, or Firm*—Fish & Richardson P.C.[57] **ABSTRACT**

The invention is directed to a cleaning device 5, with a cradle structure 7 receiving the shaving head 3 of a shaving apparatus 1, as well as at least one cleaning fluid container 6, 61 and a device adapted to be driven by a motor 23 for feeding the cleaning fluid, wherein the cradle structure 7 receiving the shaving head 3 is arranged separately from the cleaning fluid container 6 and is supplied with cleaning fluid from the container.

27 Claims, 8 Drawing Sheets

Patent Assignment Abstract of Title

**NOTE: Results display only for issued patents and published applications.
For pending or abandoned applications please consult USPTO staff.**

Total Assignments: 2

Patent #: 5711328 **Issue Dt:** 01/27/1998 **Application #:** 08376849 **Filing Dt:** 01/23/1995

Inventor: GEBHARD BRAUN

Title: CLEANING DEVICE FOR THE SHAVING HEAD OF A DRY SHAVER

Assignment: 1

Reel/Frame: 007769/0797

Recorded: 01/23/1995

Pages: 4

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

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Exec Dt: 12/21/1994

Assignee: BRAUN AKTIENGESELLSCHAFT

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Exec Dt: 12/13/1999

Assignee: BRAUN GMBH

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40-581 4
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1-23-95

Execution Date: December 21, 1994

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PATENT

RIEL: 7769 FRAMIS: 0797

00/376849

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That Whereas I, Gebhard Braun of 65779 Kelkheim,
Germany, have invented certain improvements in _____

and have disclosed the same in an application for Letters Patent
in the United States therefor, said application having been dated
and executed by me concurrently herewith; and

WHEREAS BRAUN AKTIENGESSELLSCHAFT, a corporation duly
organized and existing under the laws of Germany, and having a
place of business at Frankfurt, Germany, hereinafter called BRAUN
A.G. is desirous of acquiring the said application for Letters
Patent of the United States, all inventions therein disclosed,
and any and all Letters Patent of the United States and of all
other countries which may be granted for the said inventions, or
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NOW THEREFORE, for good and valuable considerations to me
paid by BRAUN A.G., the receipt whereof is hereby acknowledged, I
do hereby sell, assign, transfer and set over unto BRAUN A.G.,
its successors and assigns, the entire right, title and interest
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inventions therein disclosed, and any and all Letters Patent of
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for the said inventions, or any of them.

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PATENT

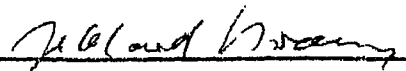
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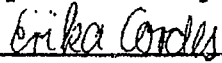
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IN WITNESS WHEREOF I have hereunto set my hand and seal this
21st day of December, 19⁹⁴.


(Gebhard Braun)

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PATENT
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United States Patent [19]
Braun

[11] **Patent Number:** **5,649,556**
[45] **Date of Patent:** **Jul. 22, 1997**

[54] **CLEANING DEVICE FOR CLEANING THE
SHAVING HEAD OF A DRY SHAVING
APPARATUS**

[75] **Inventor:** Gebhard Braun, Kelkheim, Germany

[73] **Assignee:** Braun Aktiengesellschaft, Kronberg,
Germany

[21] **Appl. No.:** 370,681

[22] **Filed:** Jan. 10, 1995

[30] **Foreign Application Priority Data**

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[51] **Int. Cl.⁶** **B08B 9/00**

[52] **U.S. Cl.** 134/92; 134/111; 134/186;
134/166 R

[58] **Field of Search** 134/111, 155,
134/186, 92, 184, 166 C, 166 R, 201, 62,
116, 135

[56] **References Cited**

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3,365,267	1/1968	Mekiney et al.	134/111
3,378,019	4/1968	Riolo et al.	134/111
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3,890,988	6/1975	Lee	134/111
3,908,681	9/1975	Schimke et al.	134/95.2
4,054,963	10/1977	Taylor	
4,105,342	8/1978	Plourde	134/111
4,442,956	4/1984	Nasu	30/41.5
4,462,415	7/1984	Otzen	134/111
4,549,352	10/1985	Ochiai et al.	30/41.5
4,597,126	7/1986	Beech	134/155

4,631,825	12/1986	Kuriama et al.	30/43.92
4,730,631	3/1988	Schwartz	134/155
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4,991,609	2/1991	Browning	134/184
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5,095,925	3/1992	Elledge et al.	134/184
5,118,357	6/1992	Sabatka	134/64 R
5,143,101	9/1992	Mor	134/108
5,156,813	10/1992	Calhoun	134/186
5,179,890	1/1993	Reuveni et al.	134/64 R
5,186,631	2/1993	Kitajima	134/164
5,318,356	6/1994	Shelton	312/223.1
5,333,628	8/1994	Ogata et al.	134/64
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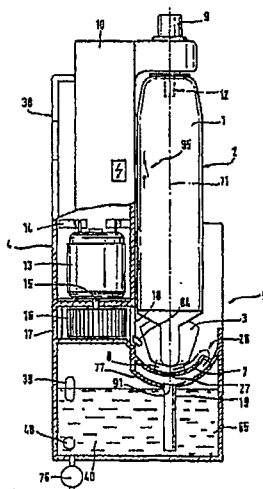
Primary Examiner—Frankie L. Stinson

Attorney, Agent, or Firm—Fish & Richardson, P.C.

[57] **ABSTRACT**

The invention is directed to a cleaning device 5 for cleaning the shaving head 3 of a dry shaving apparatus 1, with a cradle structure 7 adapted to receive therein the shaving head 3, a cleaning fluid container 61 holding a cleaning fluid, as well as a device adapted to be driven by a motor 28 for feeding the cleaning fluid, wherein the cleaning fluid container 61 is separable from the cleaning device 5 and includes a filter means 24 integrally formed therewith.

20 Claims, 8 Drawing Sheets



Patent Assignment Abstract of Title

**NOTE: Results display only for issued patents and published applications.
For pending or abandoned applications please consult USPTO staff.**

Total Assignments: 2

Patent #: 5649556 **Issue Dt:** 07/22/1997 **Application #:** 08370681 **Filing Dt:** 01/10/1995

Inventor: GEBHARD BRAUN

Title: CLEANING DEVICE FOR CLEANING THE SHAVING HEAD OF A DRY SHAVING APPARATUS

Assignment: 1

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Assignment: 2

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Pages: 11

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Exec Dt: 12/13/1999

Assignee: BRAUN GMBH

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Attorney Docket No.: 02894-001001
Page 2 of 7

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PATENT
REEL: 011035 FRAME: 0270

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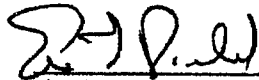
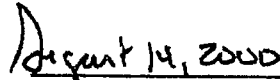
Substitute Form PTO-1595
Attorney Docket No.: 02894-001001
Page 6 of 7

5,974,613
5,893,715
D401,013
D402,402
D397,624
6,000,135
5,810,472
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D415,865
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Substitute Form PTO-1595
Attorney Docket No.: 02894-001001
Page 2 of 7

Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: ERIC L. PRAHL Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110-2804	6. Total number of applications/patents involved: 1
	7. Total fee (37 CFR §3.41): \$11,400 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account.
	8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE THIS SPACE	
9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>	
Eric L. Prah Reg. No. 32,590 Name of Person Signing	 Signature
	 Date
Total number of pages including coversheet, attachments and document: 14	

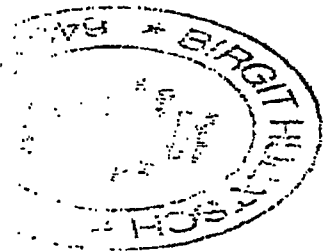
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PATENT
REEL: 011035 FRAME: 0275

Verification of Translation:

I, Birgit Hubatsch, of Elisabethenstr. 33a, D-64390 Erzhäusen, Federal Republic of Germany, hereby declare that I am well acquainted with both the English and the German languages and that the attached document is a true and correct translation made by me to the best of my knowledge and belief of the attached Extract from the Commercial Register HRB 4711 dated December 13, 1999

Signed at Erzhäusen, this 10th day of April 2000




Birgit Hubatsch
Sworn Translator

PATENT
REEL: 011035 FRAME: 0276

Verified Translation from the German Language

Amtsgericht Königstein/Taunus
[Königstein/Taunus Local Court]Thousands Hundreds Tens
13579[Stamp]
Certified PhotocopyThousands Hundreds Tens
24680

HRB 4711

Page 1

No. of Entry	a) Company Name b) Registered Offices c) Object of the Enterprise	Capital Stock DM	Officers General Partners General Managers Liquidators	Procurement Holders	Legal Status	a) Date of Entry and Signature b) Remarks
1	a) Braun GmbH b) Kronberg c) The development, manufacture and sale of industrial products, in particular electrical, electronic, mechanical, precision-mechanical, optical and other consumer goods.	DM 50,000,000 --	Bernhard Wied, Dipl.-Ing. (FH), Königstein Norbert Gehlke, Großhandelskaufmann, Bad Soden Lothar Helwig, born Feb 21, 1944, Eppstein	Procurement holders when acting in consort with a general manager or another procurement holder: 1. Dieter Bach, Luderburg; 2. Alfred Weber, Wehrheim; 3. Peter Wanka, Belfin; 4. Stefan Müller-Mestamp, Kronberg im Taunus; 5. Karl H. Heibusch, Wehrheim; 6. Willy Meyer, Friedrichsdorf; 7. Dr. Heinz Auerbach, Kronberg im Taunus; 8. Dr. Rüdiger Marsch, Königstein im Taunus; 9. Bernd Schreike, Hochheim am Main; 10. Ludo Milutski, Weiskorf; 11. Hans-Jürgen Dillpeter, Sulzbach (Taunus); 12. Hartmut Ströb, Bad Nauheim; 13. Heisl Wessels, Laar; 14. Detlef Bachhaus, Bad Homburg v.d. Höhe; 15. Klaus Gossens, Frankfurt am Main; 16. Ernst Lothar Helwig, Eppstein; 17. Dr. Günther Baatz, Kronberg im Taunus; 18. Dr. Walter Hägde, Frankfurt am Main; 19. Dr. Lothar Heuwnkel, Eppstein-Vockenhausen; 20. Dieter Köppen, Niederrhausen; 21. Kay Klingner, Eschborn; 22. Volker Röcker, Ober-Mörlen; 23. Dieter Krieth, Hofheim am Taunus; 24. Karlheinz Klinger, Hattersheim; 25. Rolf Krippner, Schmitteln; 26. Rolf Maas, Neu-Isenburg; 27. Walter Zimmermann, Bad Soden am Taunus; 28. Dieter Amend, Buchten;	Gesellschaft mit beschränkter Haftung (company in GmbH form - limited liability company). The company came into being as a result of the transformation of the Braun Aktiengesellschaft [joint stock company] entered in the Commercial Register HRB 8350 of the Amtsgericht Frankfurt am Main into a Gesellschaft mit beschränkter Haftung [limited liability company] following a resolution to that end by the shareholders' general meeting dated November 02, 1998 [Articles 190 ff., 226 f., 238 ff. of UmwG (German Law on the Transformation of Joint Stock Companies)]. By shareholders' resolution of June 30, 1999, the registered offices have been transferred from Frankfurt am Main to Kronberg, and Article 1, Paragraph 2 (Registered Offices), Articles 5 (Conduct of Business), 13 (Partners' Duties) and 14 (Annual Financial Statement and Status Report) of the Articles of Association have been amended. The company has at least two general managers. The company has a supervisory board. A control agreement exists between the company and The Gillette Company of Boston Massachusetts, USA. Bernhard Wied, general manager, has sole powers of representation. Norbert Gehlke and Lothar Helwig, general managers, each represent the company only when acting in consort with another general manager or in consort with a procurement holder.	a) Sep 1, 1999 (Signature: illegible) b) Articles of Association, page 76 ff. of Special Volume VII Previously Amtsgericht Frankfurt am Main [Frankfurt am Main Local Court] HRB 46301
To be continued	overleaf					

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[Stamp of the Königstein
im Taunus Local Court]

Back of Page 1

HRB 4711

No. of Entry	a) Company Name b) Registered Offices c) Object of the Enterprise	Capital Stock DM	Officers General Partners General Managers Liquidators	Procurement Holders	Legal Status	a) Date of Entry and Signature b) Remarks
1	2	3	4	5	6	7
No. 1 cont'd				29. Albrecht, Jeddast, Friedrichsdorf; 30. Reinhard Meibach, Hofheim- Wilsachsen; 31. Bernhard Paul, Friedrichsdorf; 32. Christa Balzer, Königstein im Taunus; 33. George Palivalukal, Eschborn; 34. Gerd Hegny, Bad Homburg v.d. Höhe; 35. Manfred Meckler, Buchen; 36. Peter Schneider, Königstein im Taunus; 37. Hans Gennertich, Hofheim am Taunus; 38. Dr. Wolfgang Vorbeck, Kislain; 39. Dr. Heinz Büllges, Eppstein; 40. Peter Hltinger, Bad Homburg v.d. Höhe; 41. Dr. Robert Jung, Friedberg; 42. Jonathan Rassy, Königstein im Taunus; 43. Michael Hansen, Eschborn; 44. Irma Holings-van de Vile, Sulzbach; 45. Berthold Mathias, Eschborn; 46. Stefan Schanberg, Usingen; 47. Rainer Sibbenagel, Oberursel; 48. Dr. Josef Wilhelm Reikemeier, Niederrhausen; 49. Christian Reckardt, Bad Homburg v.d. Höhe; 50. Klaus Weck, Königstein im Taunus; 51. Scott Meyer, Königstein im Taunus; 52. J. Ross McMullin, Kronberg im Taunus; 53. Joachim Reinhardt, Steinbach; 54. Elisabeth Novak, born Nov 10, 1955, Liederbach;		

to be continued
on page

PATENT

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im Taunus Local Court]

Thousands Hundreds Tens
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Thousands Hundreds Tens
24680

HRB 4711

Page 2

No. of Entry	a) Company Name b) Registered Offices c) Object of the Enterprise	Capital Stock DM	Officers General Partners Liquidators	Procurement Holders	Legal Status	a) Date of Entry and Signature b) Remarks
1	2	3	4	5	6	7
No. 1 cont'd				55. Norbert Koll, born Apr 18, 1957, Mainz; 56. Bernd Seifert, born Apr 7, 1964, Darmstadt; 57. Peter Mann, born Apr 23, 1955, Triefenstein-Homburg; 58. Ralf Paulus, born Apr 15, 1962, Büchen;		
2				Procurement holders when acting in consort with a general manager or a procurement holder: 59. Wilfried Ott, born Oct 30, 1947, Mönchen-Gladbach; 60. Georg Muthrath, born Jun 24, 1960, Gelnhausen. The procurement entry under Serial No. 11 is corrected to the effect that procurement has been granted. 11. Hans-Jürgen Dittmeyer, born Apr 21, 1946, The procurations held by Karl H. Heibusch (5.) and Ernst Lohrer Helwig (16.) have been extinguished.		a) Oct 20, 1999 [Signature: illegible] b) Note pages 98-101 of Special volume
		[Stamp] Please note that the underlined parts of the entry in the following photocopy have been deleted in conjunction with the changes and deletions entered.		[Stamp of the Königstein im Taunus Local Court]	[Stamp] This is to certify that the foregoing is a true and correct copy of record as registered in the Commercial Register. Königstein/Ts., this 13th day of December 1999 [Signature: illegible]	[Stamp] Registrar of the Court

to be continued overleaf

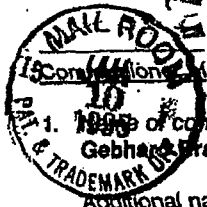
PATENT

REEL: 011035 FRAME: 0279

RECORDED: 08/17/2000

Substitute Form

06-08-1995



100013853

1. Name of conveying party(ies):
Gebhardt Braun

Additional name(s) attached? ☐ Yes ☒ No

3. Nature of conveyance:
☒ Assignment
☐ Merger
☐ Security Agreement
☐ Change of Name
☐ Other:

Execution Date: 12/21/94

4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is: December 21, 1994
 A. Patent Application No.(s):
 B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name/address of party to whom correspondence concerning document should be mailed:

Eric L. Prael
 Fish & Richardson P.C.
 225 Franklin Street
 Boston, MA 02110-2804

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR 3.41): \$40

☒ Enclosed

☐ Authorized to charge deposit account

8. Deposit account number: 06-1050

If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

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40.00 CK

9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.

Eric L. Prael

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 4

"EXPRESS MAIL" Mailing Label Number BB45623487645

Date of Deposit January 10, 1995

I hereby certify under 37 CFR 1.10 that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office To Addressee" with sufficient postage on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Richard Sanders
 PATENT

REEL: 7638 FRAME: 0593

08/370681

ASSIGNMENT

KNOWN ALL MEN BY THESE PRESENTS,
That Whereas I, Gebhard Braun of Spessartstraße 18,
Germany, have invented certain improvements in Cleaning Device for
Cleaning the Shaving Head of A Dry Shaving Apparatus
and have disclosed the same in an application for Letters Patent
in the United States therefor, said application having been dated
and executed by me concurrently herewith; and

WHEREAS BRAUN AKTIENGESELLSCHAFT, a corporation duly
organized and existing under the laws of Germany, and having a
place of business at Frankfurt, Germany, hereinafter called BRAUN
A.G. is desirous of acquiring the said application for Letters
Patent of the United States, all inventions therein disclosed,
and any and all Letters Patent of the United States and of all
other countries which may be granted for the said inventions, or
any of them;

NOW THEREFORE, for good and valuable considerations to me
paid by BRAUN A.G., the receipt whereof is hereby acknowledged, I
do hereby sell, assign, transfer and set over unto BRAUN A.G.,
its successors and assigns, the entire right, title and interest
in, to and under the said application for United States Letters
Patent, including all priority rights arising therefrom, all
inventions therein disclosed, and any and all Letters Patent of
the United States and of all other countries which may be granted
for the said inventions, or any of them.

TO HAVE, HOLD and ENJOY the said inventions, the said
application, and the said Letters Patent to said BRAUN A.G., its
successors and assigns, to its and their own use and said Letters
Patent may be granted, as fully and entirely as the same would
have been held and enjoyed by me had this assignment and sale not
been made.

And I do hereby authorize and request the Commissioner of
Patents and Trademarks of the United States to issue any United
States Letters Patent which may be granted on the said

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue any United States Letters Patent which may be granted on the said application, or any divisional, reissue or continuation applications, or for the said inventions or any of them, to said BRAUN A.G., its successors and assigns, as assignees of the entire right, title and interest therein and thereto.

And we do hereby, for ourselves and for our legal representatives, covenant and agree with BRAUN A.G., its successors and assigns, that we have granted to others no license to make, use or sell any of the said inventions, that our right, title and interest in the said inventions has not been encumbered, that we have good right and title to sell and assign the same, and that we will not execute any instrument in conflict herewith.

And we do hereby, for ourselves and for our legal representatives, further covenant and agree with BRAUN A.G., its successors and assigns, that upon request we will, and they shall execute divisional, reissue or continuation applications, amended specifications, or rightful oaths; communicate to BRAUN A.G., its successors and assigns, any facts known to us relating to the said inventions or the history thereof; execute preliminary statements and testify in any interference proceedings; execute and deliver any application papers, assignments, or other instruments, and do all other acts which, in the opinion of counsel for BRAUN A.G., may be necessary or convenient to secure the grant of Letters Patent to BRAUN A.G., its successors and assigns, or its nominees, in the United States and in all other countries where BRAUN A.G., may desire to have the said inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for BRAUN A.G., and to vest and confirm in BRAUN A.G., its successors and assigns, or its nominees, the full and complete legal and equitable title to all such Letters Patent, without further consideration than now paid but at the expense of BRAUN A.G., its successors and assigns.

IN WITNESS WHEREOF I have hereunto set my hand and seal this
21st day of December, 19 94.

Gebhard Braun
(Gebhard Braun)

WITNESSES:

Signed in the presence of:

Erika Cordes

Erika Cordes
Am Kunzengarten 12
D-65936 Frankfurt
FRG

Ursula Herbert

Ursula Herbert
Praunheimer Weg 134
D-60439 Frankfurt
FRG